

What is claimed is:

1. A molding base paper satisfying the following conditions (1) to (4):

(1) a tensile strength (JIS-P 8113) of at least 2.0 kN/m,

(2) an elongation at break (JIS-P 8113) of at least 1.5 %,

5 (3) a critical compression stress, defined by the following formula, in the range of 1 to 10 MPa:

$$\text{critical compression stress} = A/B$$

wherein A represents the compression strength determined by JIS-P 8126, and B represents the area of loaded part of the test piece in the determination of the compression strength, and

(4) an amount of compression deformation, caused by applying compression stress of 20 kgf/cm² in thickness direction, of at least 10 %.

2. The molding base paper according to claim 1, comprising mechanical pulp.

3. A molding base paper comprising a high density layer and a low density layer, wherein said high density layer has a density of 0.7 to 0.9 g/cm³ and said low-density layer has a density of lower than 0.7 g/cm³, and wherein said base paper has a basis weight of 100 to 500 g/cm² and a density of 0.4 to 0.7 g/cm³.

4. The molding base paper according to claim 3, wherein said low density layer mainly comprising pulp selected from the group consisting of mechanical pulps, curled fibers and mercerized pulps.

5. The molding base paper according to claim 4, wherein said low-density layer is mainly composed of mechanical pulp.

6. The molding base paper according to claim 5, wherein said mechanical pulp is thermomechanical pulp (TMP).

7. The molding base paper according to claims 1 to 6, further comprising a crack preventing layer having an elongation at break of at least 5 %, at least one surface thereof.

8. The molding base paper according to claim 7, wherein said elongation at break is at least 6 %.

9. The molding base paper according to claim 7, wherein said crack preventing layer has a basis weight of 50 to 150g/m².

10. The molding base paper according to claims 1 to 9, further comprising a synthetic resin layer on at least one surface thereof.

11. The molding base paper according to claim 10, wherein said synthetic resin is selected from the group consisting of polyethylene, polypropylene, polymethylpentene, polyethylene terephthalate, polybutylene terephthalate, polyamide, ethylene/vinyl alcohol copolymer, polystyrene, and polyacrylonitrile.

12. The molding base paper according to claim 10, wherein said synthetic resin is a biodegradable thermoplastic resin selected from the group consisting of 3-hydroxybutyrate/3-hydroxyvalerate copolymer, 3-hydroxybutyrate polymer, polycaprolactone, polyglycolide, polyvinyl alcohol, polyvinyl alcohol/starch composite, and cellulose derivatives.

13. The molding base paper according to claim 10, wherein said synthetic resin layer further contains a pigment.

14. The molding base paper according to claim 13, wherein said pigment is selected from the group consisting of calcium carbonate, kaolin, clay, talc, titanium oxide, and plastics.

15. A molded paper vessel formed from the molding base paper according to claims 1 to 14 by the drawing.

16. The molded paper vessel according to claim 15, which satisfies the following formula:

$$0.15 \leq H/(S2)^{1/2}$$

wherein S2 represents the area of the opening at the top of the vessel and

5 H represents the height.